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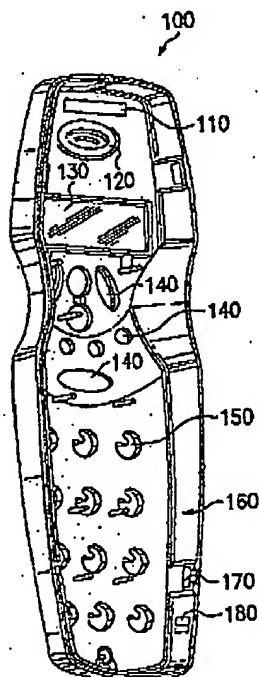
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(54) Title: ELECTRONIC DEVICE COVER WITH EMBEDDED RADIO FREQUENCY (RF) TRANSPONDER AND METH-
ODS OF USING SAME(57) Abstract: A changeable cover (100) for an electronic device and method of using same
in a payment system is provided. The cover (100) has a transponder (110) responsive to in-
terrogation by an electric field. The cover provides an electronic identification number and
other information in response to the interrogation signal. Also provided is a system for mak-
ing payments, comprising at least one mobile station (4) which has an associated cover (100)
for providing local data transfer. The system also comprises at least one point of sale terminal
or the like, which has a second transceiver for providing data transfer.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7: H04Q7/22 607F19/00 607F7/08 607B15/02 607F7/10		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 607F 607B 606F 607C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	
X	US 6 078 806 A (TERHO MIKKO ET AL) 20 June 2000 (2000-06-20) cited in the application column 2, line 27 - line 44 column 3, line 47 - line 49 column 4, line 56 - column 5, line 25 column 10, line 50 - line 53 column 11, line 29 - line 42	1-5
X	EP 0 940 783 A (KEYCORP LIMITED) 8 September 1999 (1999-09-08) paragraph '0016' - paragraph '0018' figures 1,2	1,4
X	WO 99 09525 A (BARENDT STEVE HJALMAR) 25 February 1999 (1999-02-25) page 3, line 35 - page 5, line 25	1,2,4-6
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		<input checked="" type="checkbox"/> Patent family members are listed in annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "Z" document member of the same patent family
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Name and mailing address of the ISA European Patent Office, P.O. 6818 Patentplan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 631 630 01 Fax (+31-70) 340-3016		Authorized officer Schofield, C

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
Category	Citation of document, with indication, where appropriate, of the relevant passages	
X	WO 97 24698 A (BOSCH GMBH ROBERT ;HERTLE JOCHEN (DE); ALSTHOM C&E ALCATEL (FR); B) 10 July 1997 (1997-07-10) page 3, line 29 -page 4, line 7 page 5, line 18 - line 30 page 8, line 8 - line 33 page 9, line 15 - line 27	1-4
X	WO 96 11452 A (COMBITECH TRAFFIC SYST AB ;OLSSON LARS (SE); HJELMARE ANDERS (SE)) 18 April 1996 (1996-04-18) page 3, line 21 - line 27 page 4, line 17 -page 5, line 28	1-4
X	WO 96 27170 A (PARKIT OY ;ILEN TERO (FI)) 6 September 1996 (1996-09-06) page 2, line 24 -page 3, line 15 page 4, line 1 - line 12 figure 2	6-8
X	US 3 713 148 A (PARKS W ET AL) 23 January 1973 (1973-01-23) cited in the application column 3, line 17 - line 59 column 4, line 51 -column 5, line 10 figures 1,2	6,7
X	DATABASE WPI Section PQ, Week 199918 Derwent Publications Ltd., London, GB; Class Q47, AN 1999-213078 XP002251447 -& NL 1 006 445 C (GROEN BEHEER BV), 5 January 1999 (1999-01-05) page 2, line 13 -page 3, line 20 page 3, line 35 -page 4, line 32 page 5, line 33 -page 6, line 4 abstract	14-16
X	DE 43 01 039 A (LATSCH UWE DIPL ING) 21 July 1994 (1994-07-21) column 2, line 18 - line 40	14,16
A	US 5 918 213 A (JACOBSON PHILIP A ET AL) 29 June 1999 (1999-06-29) column 10, line 24 - line 33 column 16, line 36 -column 17, line 22 column 31, line 64 -column 32, line 43 column 60, line 28 -column 61, line 19	13-16
A	WO 98 43196 A (MARTIN JAY R ;MARTIN SCOTT E (US)) 1 October 1998 (1998-10-01) page 5, line 22 -page 8, line 2	13-16

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT		International application No. PCT/US 01/23611
Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.	<input type="checkbox"/>	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	<input type="checkbox"/>	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	<input type="checkbox"/>	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
This International Searching Authority found multiple inventions in this International application, as follows:		
see additional sheet		
1.	<input type="checkbox"/>	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	<input type="checkbox"/>	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	<input checked="" type="checkbox"/>	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: 13-16
4.	<input type="checkbox"/>	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest		<input type="checkbox"/> The additional search fees were accompanied by the applicant's protest. <input checked="" type="checkbox"/> No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)

International Application No. PCT/US 01 23611

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5, 6-8

Means of data transfer comprising an electronic device and a removable module.

1.1. Claims: 6-8

An electronic parking meter comprising an interrogator for creating an electromagnetic field.

2. Claim : 9

A battery comprising an energy collection means to collect radio frequency energy when battery is within reading range of an RFID reader.

3. Claims: 10-12

Method for operating a payment system involving communication through an electromagnetic induction interrogator.

4. Claims: 13-16

Operating a reservation system including receiving location information of item to be reserved and an electronic code for unlocking said item.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

INTERNATIONAL SEARCH REPORT				International Application No	
Information on patent family members				PCT/US 01/23611	
Patent document cited in search report	Publication date	Patent family member(s)	Publication date		
US 6078806	A	20-06-2000	FI	950685 A	16-08-1996
			US	2002102963 A1	01-08-2002
			AU	696876 B2	17-09-1998
			AU	4624796 A	04-09-1996
			AU	709016 B2	19-08-1999
			AU	7865698 A	22-10-1998
			AU	712095 B2	28-10-1999
			AU	7865798 A	15-10-1998
			AU	1379608 A	13-11-2002
			CN	1411307 A	16-04-2003
			CN	1174648 A ,B	25-02-1998
			CN	0809916 A1	03-12-1997
			EP	9625828 A1	22-08-1996
			WO	11501424 T	02-02-1999
			JP	6418326 B1	09-07-2002
			US	5887266 A	23-03-1999
EP 0940783	A	08-09-1999	AU	1130099 A	23-09-1999
			DE	940783 T1	20-04-2000
			EP	0940783 A2	08-09-1999
			ES	2140365 T1	01-03-2000
			JP	2000030146 A	28-01-2000
			US	2001037249 A1	01-11-2001
WO 9909525	A	25-02-1999	NL	1006770 C2	16-02-1999
			AT	231264 T	15-02-2003
			AU	736858 B2	02-08-2001
			AU	8753198 A	08-03-1999
			DE	69810780 D1	20-02-2003
			DK	1004096 T3	22-04-2003
			EP	1004096 A1	31-05-2000
			JP	2001516091 T	25-09-2001
			WO	9909525 A1	25-02-1999
WO 9724698	A	10-07-1997	SE	515611 C2	10-09-2001
			AT	196557 T	15-10-2000
			AU	716366 B2	24-02-2000
			AU	1309197 A	28-07-1997
			BR	9612244 A	13-07-1999
			CA	2239168 A1	10-07-1997
			CN	1209211 A ,B	24-02-1999
			DE	69610438 D1	26-10-2000
			DE	69610438 T2	26-07-2001
			WO	9724698 A1	10-07-1997
			EP	0870285 A1	14-10-1998
			ES	2153608 T3	01-03-2001
			IL	124890 A	19-03-2001
			JP	2000510617 T	15-08-2000
			NO	982771 A	16-06-1998
			SE	9504558 A	11-07-1997
			US	6213396 B1	10-04-2001
			SE	515521 C2	20-08-2001
			AT	230508 T	15-01-2003
WO 9611452	A	18-04-1996	AU	690349 B2	23-04-1998
			AU	3713495 A	02-05-1996
			BR	9509318 A	14-10-1997
			CA	2202462 A1	18-04-1996

Form PCT/ISA/210 (patent family annex) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.
PCT/US 01/23611

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9611452 A		CN 1163670 A ,B	29-10-1997
		DE 69829294 D1	06-02-2003
		EP 0786118 A1	30-07-1997
		JP 10507022 T	07-07-1998
		NO 971694 A	28-05-1997
		SE 9403480 A	12-04-1996
		WO 9611452 A1	18-04-1996
		US 5974397 A	26-10-1999
WO 9627170 A	06-09-1996	FI 950918 A	29-08-1996
		AT 239953 T	15-05-2003
		AU 4721396 A	18-09-1996
		DE 69627989 D1	12-06-2003
		EP 0812448 A1	17-12-1997
		WO 9627170 A1	06-09-1996
		US 5905247 A	18-05-1999
US 3713148	A	23-01-1973	NONE
NL 1006445	C	05-01-1999	NL 1006445 C2
DE 4301039	A	21-07-1994	DE 4301039 A1
US 5918213	A	29-06-1999	NONE
WO 9843196	A	01-10-1998	US 5979754 A
			6572498 A
			0972264 A1
			9843196 A1

Form PCT/ISA/210 (patent family annex) (July 1992)